

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2003221163  
PUBLICATION DATE : 05-08-03

APPLICATION DATE : 31-01-02  
APPLICATION NUMBER : 2002022781

APPLICANT : NIPPON KOSHUHA STEEL CO LTD;

INVENTOR : OI TAKESHI;

INT.CL. : B65H 59/02 B21C 47/00 B21C 47/18 B21F 23/00 B65H 59/10 B65H 59/20

TITLE : TENSION CONTROL METHOD FOR WIRE LED OUT FROM BOBBIN, AND ITS DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To provide a device capable of letting out a wire led out from a supply bobbin while applying a constant tension thereto, and capable of stably processing the wire without causing wire disconnection or the like.

SOLUTION: The residual quantity of a wire wound around a supply bobbin is measured, and an inertia force is calculated from the residual quantity of the wire and the self-weight of the supply bobbin. A braking force is calculated from the inertia force and the rotational frequency of the supply bobbin. The braking force is given to the supply bobbin by a powder brake. The tension of the wire led out from the supply bobbin is retained constant to let it out.

COPYRIGHT: (C)2003,JPO